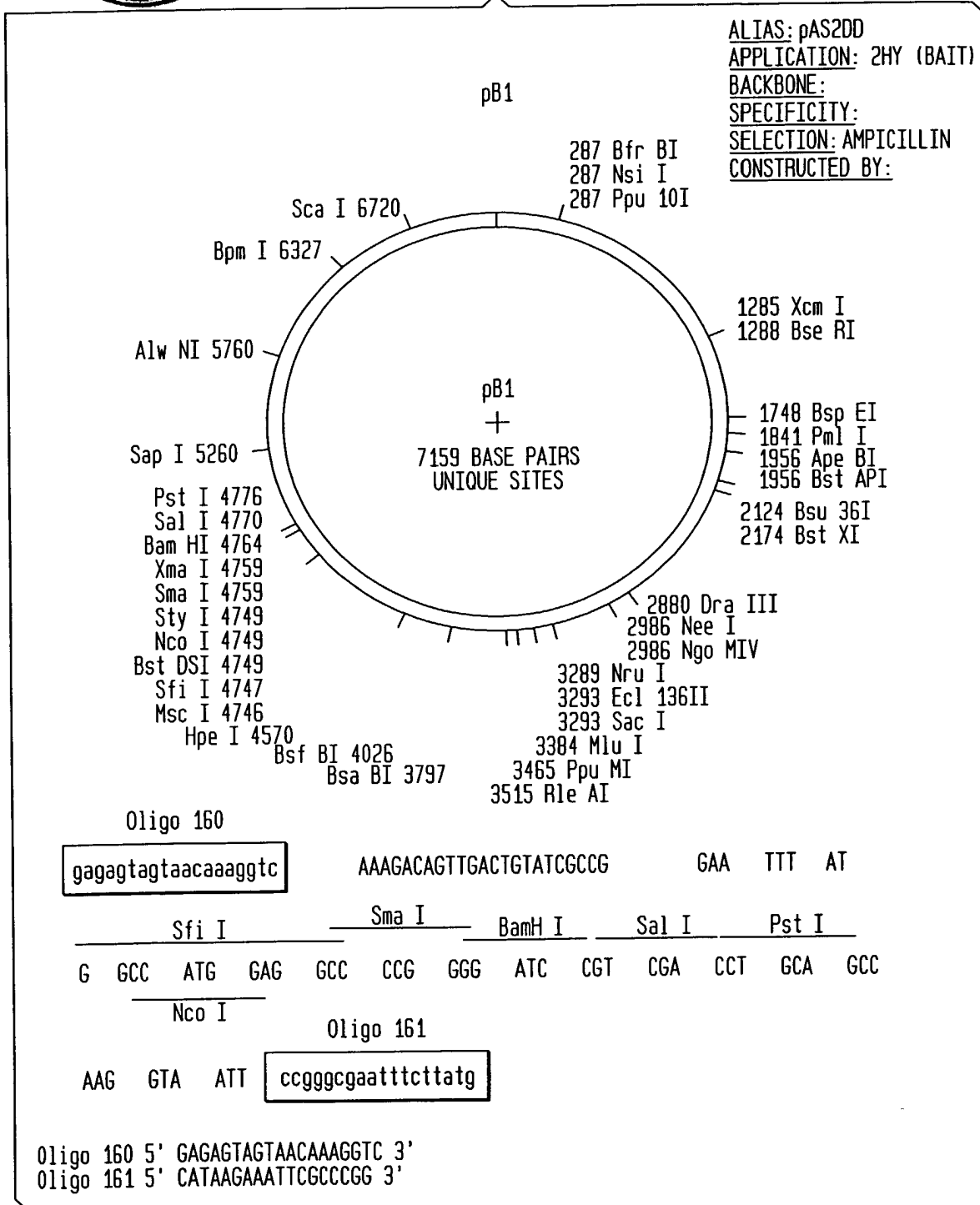




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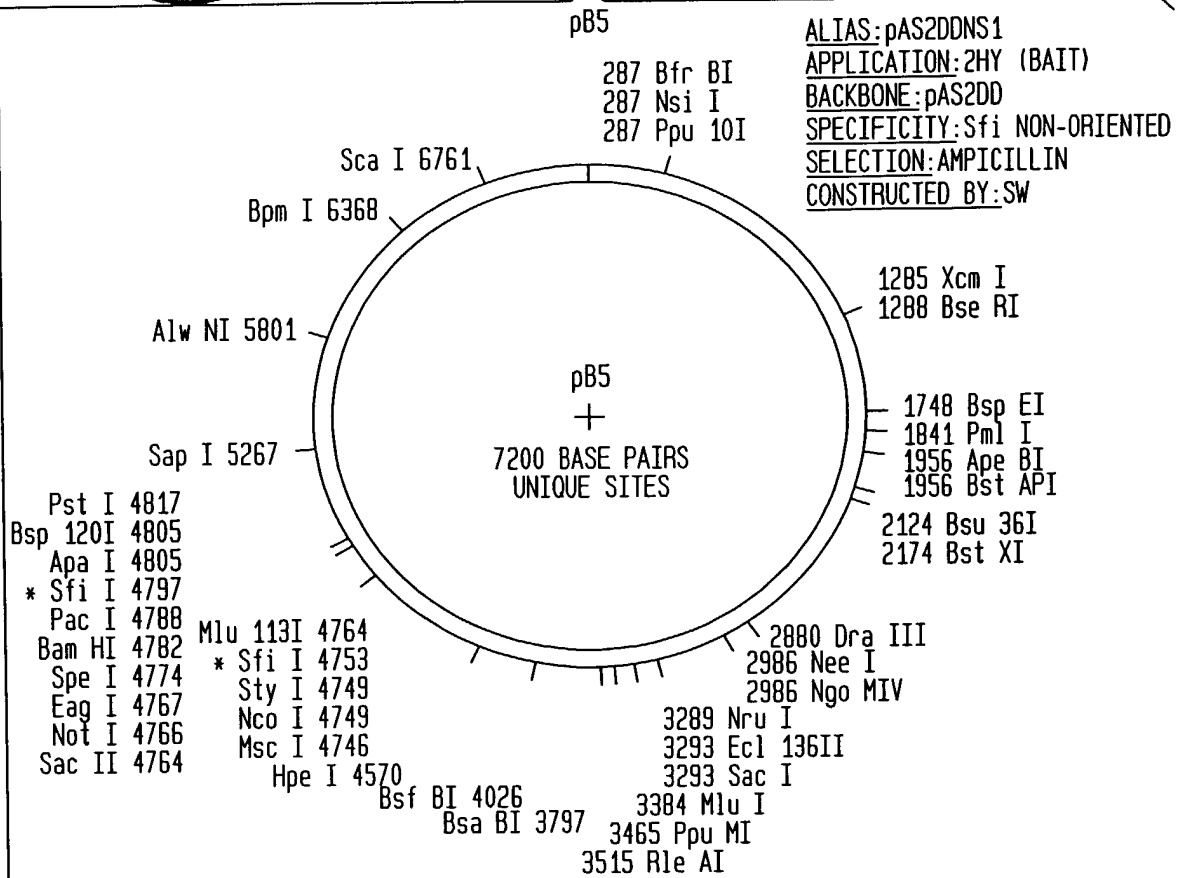
FIG. 1





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FIG. 2



ALIAS: pAS2DDNS1  
 APPLICATION: 2HY (BAIT)  
 BACKBONE: pAS2DD  
 SPECIFICITY: Sfi NON-ORIENTED  
 SELECTION: AMPICILLIN  
 CONSTRUCTED BY: SW

Oligo 160

gagagtagtaacaaaggtc

AAAGACAGTTGACTGTATCGCCG

GAA TTT AT

Sfi I      Sac II      Spe I      Bam HI  
 GCC ATG GCC GCA GGG GCC GCG GCC GCA CTA GTG GGG ATC C  
 Nco I      Not I  
 STOP      Sfi I      Pst I  
 TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA  
 Pac I

Oligo 161

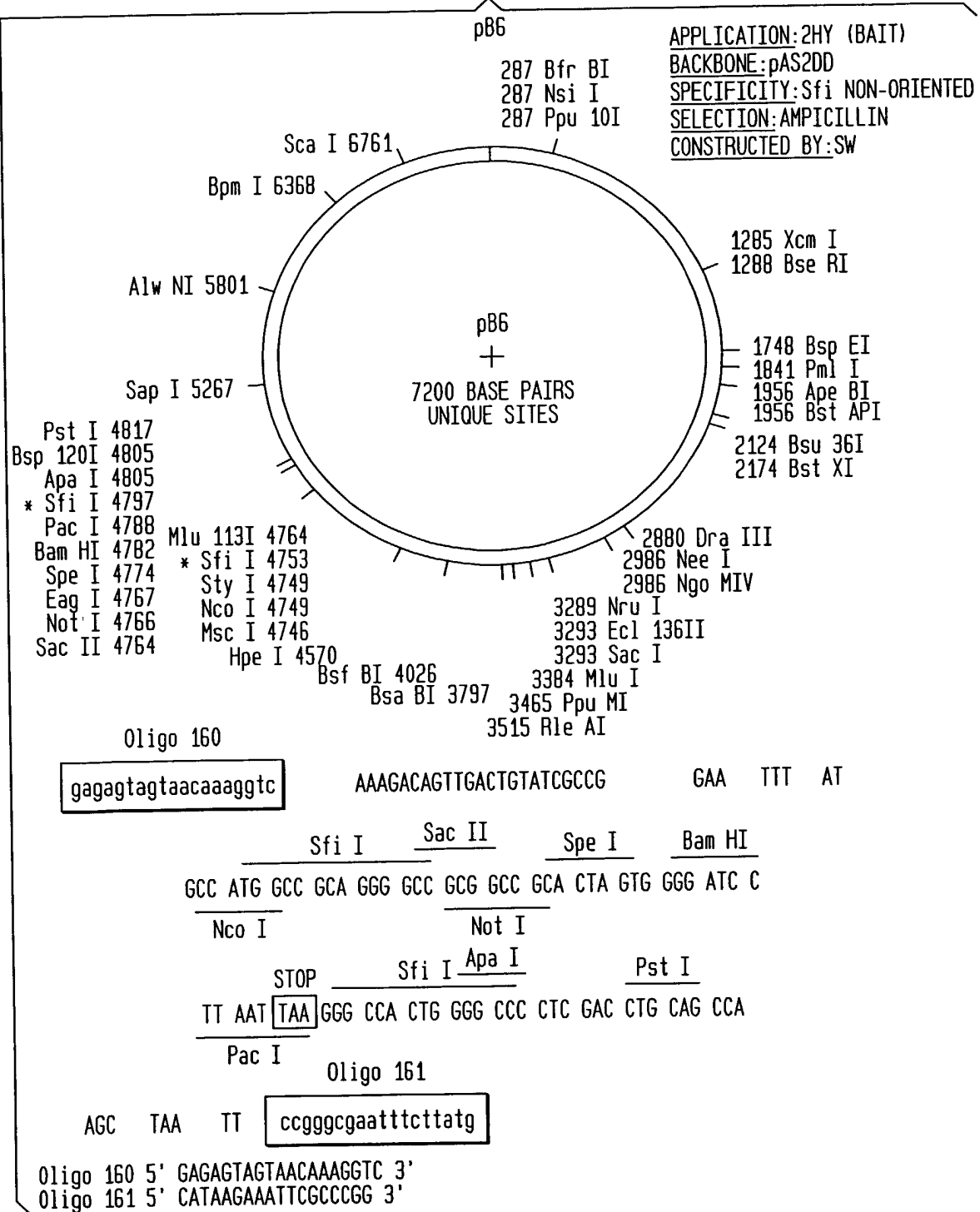
AGC TAA TT ccgggcgaatttcttatg

Oligo 160 5' GAGAGTAGTAACAAAGGTC 3'  
 Oligo 161 5' CATAAGAAATTCGCCCG 3'

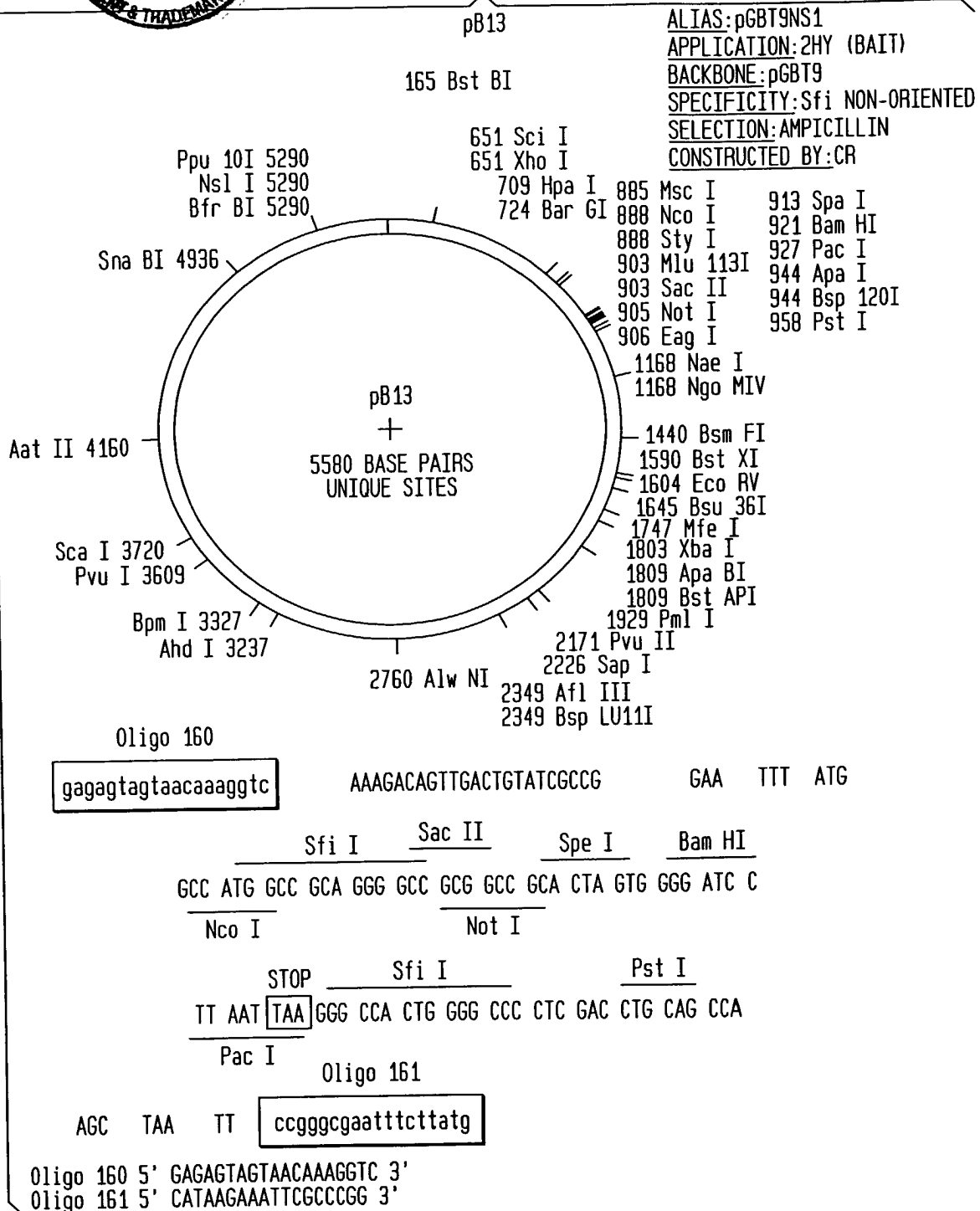


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FIG. 3



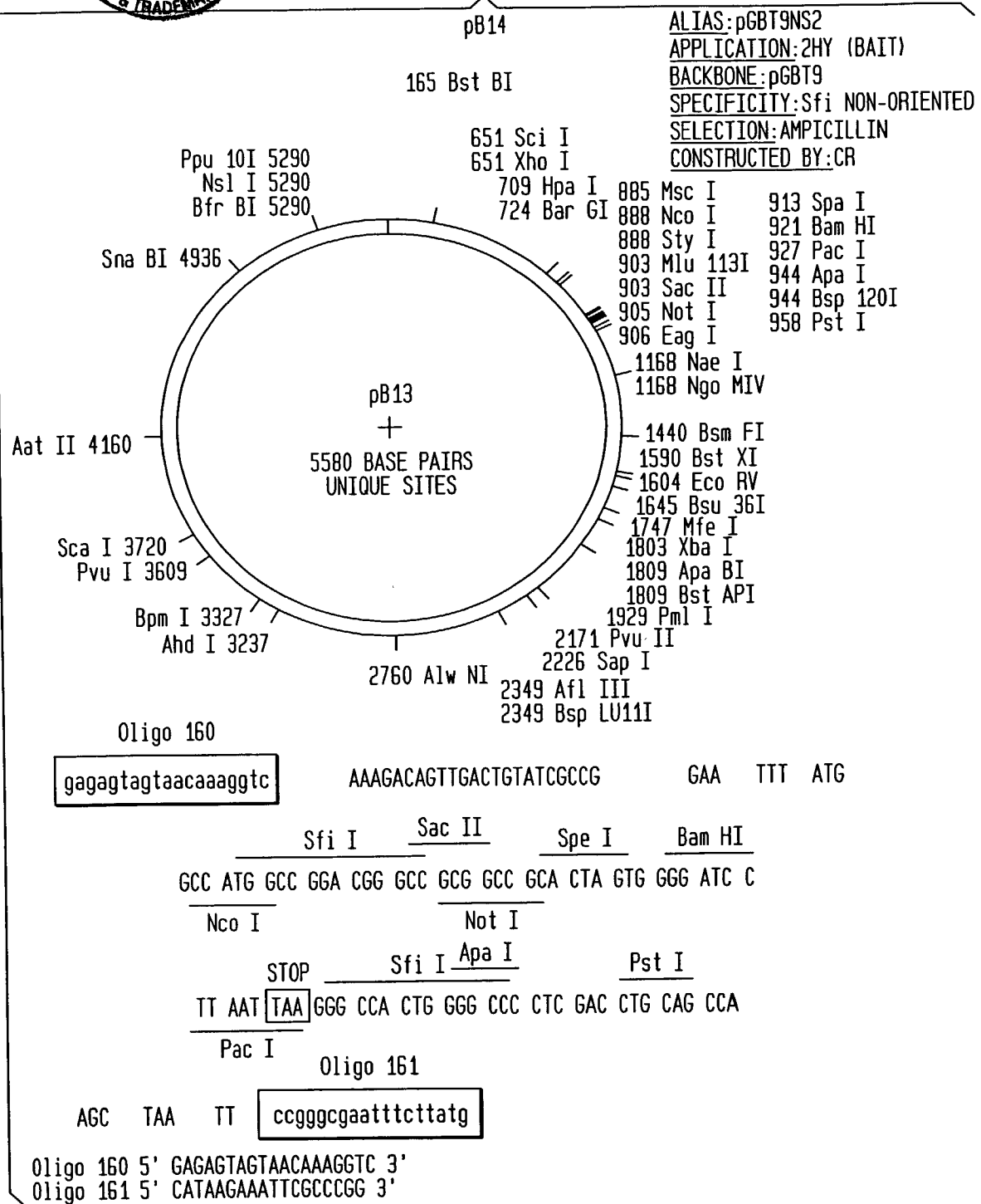
**FIG. 4**





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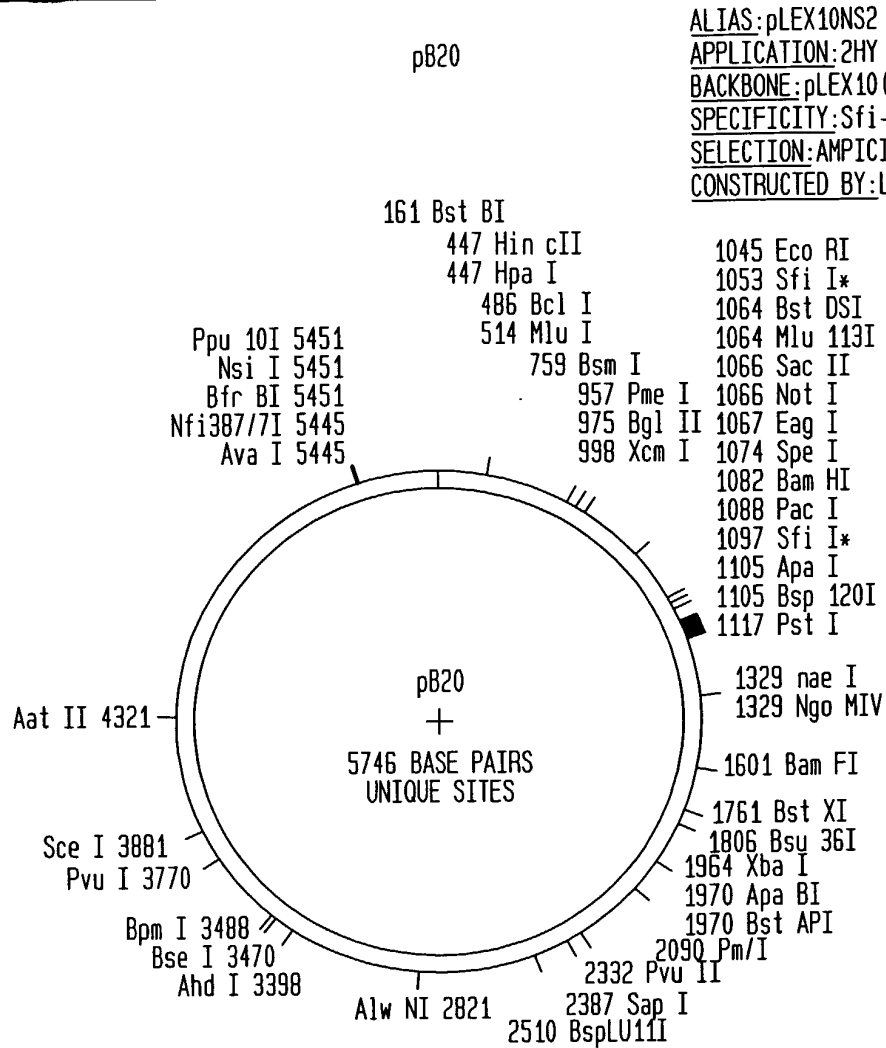
FIG. 5





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FIG. 6



EcoR I      Sfi I      Not I      Spe I      Bam HI

GAA TTC GGG GCC GGA CGG GCC GCG GCC GCA CTA GTG GGG ATC C

Sac II

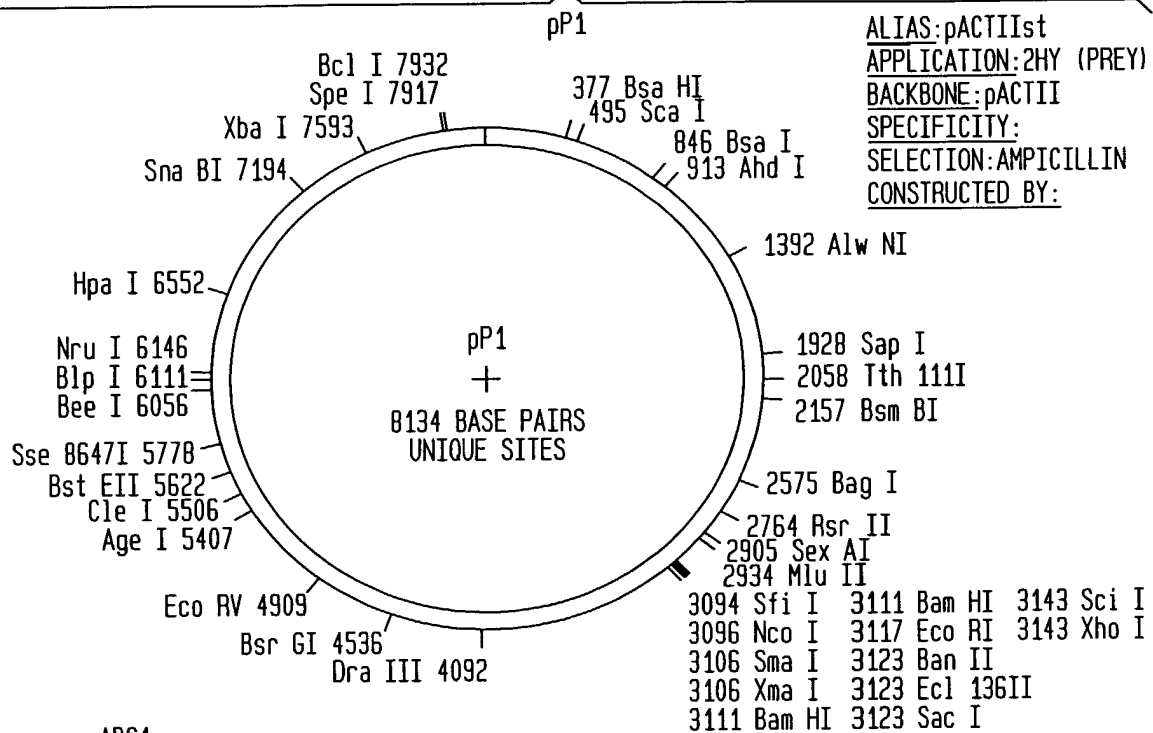
STOP

TT AAT TAA GGG CCA CTG GGG CCC CTC GAC CTG CAG CCA

Pac I      Sfi I      Pst I



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FIG. 7



ABS1

cgtttggaatcacagg GATGTTTAATACCACTACAATGGATGATGATATATAACTATCTATT

JC90

Bgl II

cgatgatgaagataccccaccaa CCCAAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

Sfi I

Sma I

BamH I

ATTACGCTAGCTTGGGTGGTCATATGCCCATGGCC ATG GAG GCC CCG GGG ATC CGA ATT

Nco I

Sac I

Xho I

Bgl II

CGA GCT CGA CTA GCT AGC TGA CTC GAG AGA TCT ATGAAT

cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcggtg caccatctcaatttc

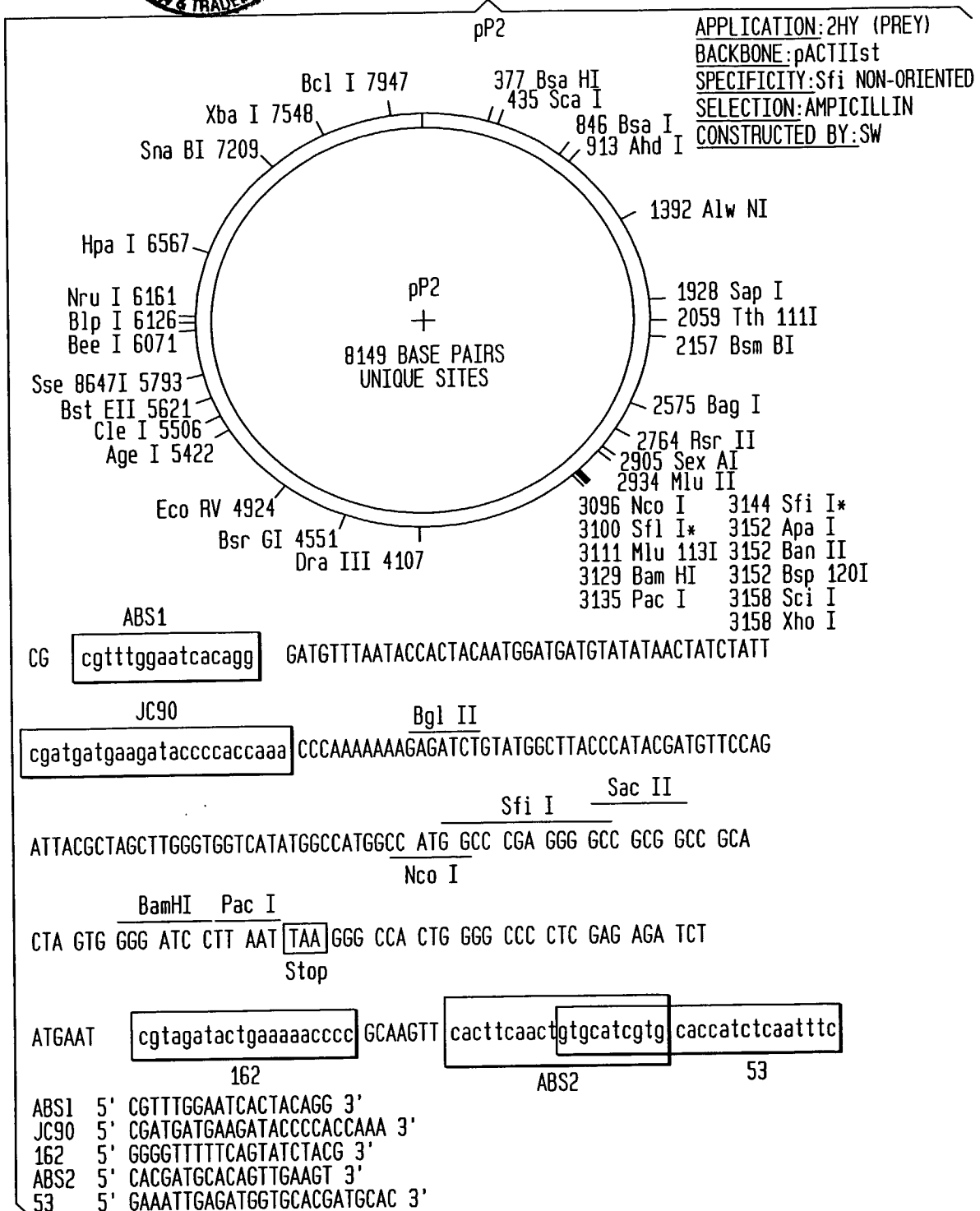
162

ABS2

53

ABS1 5' CGTTTGAATCACTACAGG 3'  
JC90 5' CGATGATGAAGATACCCACCAA 3'  
162 5' GGGGTTTTTCAGTATCTACG 3'  
ABS2 5' CACGATGCACAGTTGAAGT 3'  
53 5' GAAATTGAGATGGTGCACGATGCAC 3'

pP2





01  
JUL 23 2002  
PATENT & TRADEMARK OFFICE

APPLICATION: 2HY (PREY)  
 BACKBONE: pACTIIst  
 SPECIFICITY: Sfi NON-ORIENTED  
 SELECTION: AMPICILLIN  
 CONSTRUCTED BY: SW

pP3  
 8149 BASE PAIRS  
 UNIQUE SITES

Sna BI 7209  
 Xba I 7548  
 Bcl I 7947  
 377 Bsa HI  
 435 Sca I  
 846 Bsa I  
 913 Ahd I  
 1392 Alw NI  
 1928 Sap I  
 2059 Tth 111I  
 2157 Bsm BI  
 2575 Bag I  
 2764 Rsr II  
 2905 Sex AI  
 2934 Mlu II  
 3096 Nco I  
 3100 Sfi I\*  
 3111 Mlu 113I  
 3129 Bam HI  
 3135 Pac I  
 3144 Sfi I\*  
 3152 Apa I  
 3152 Ban II  
 3152 Bsp 120I  
 3158 Sci I  
 3158 Xho I  
 Eco RV 4924  
 Bsr GI 4551  
 Dra III 4107  
 Age I 5422  
 Cle I 5506  
 Bst EII 5621  
 Sse 8647I 5793  
 Bee I 6071  
 Blp I 6126  
 Nru I 6161  
 Hpa I 6567

ABS1  
 CG cgtttgaatcacagg GATGTTTAATACCACTACAATGGATGATGTATATACTATCTATT

JC90 cgatgatgaagataccccaccaa Bgl II CCCCCAAAAAGAGATCTGTATGGCTTACCCATACGATGTTCCAG

ATTACGCTAGCTTGGGTGGTCATATGGCCATGGCC Sfi I Sac II ATG GCC CGA GGG GCC GCG GCC GCA  
Nco I

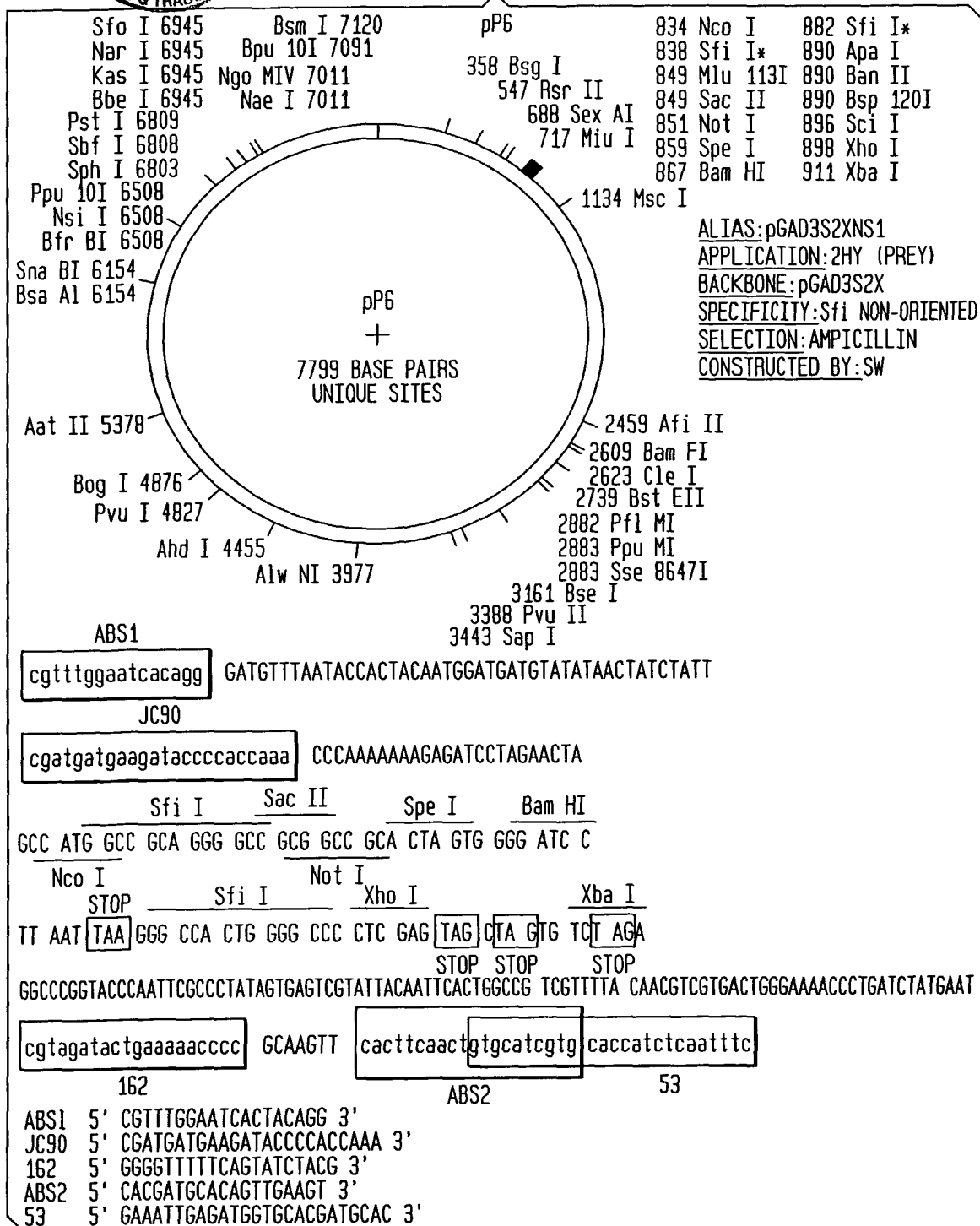
BamHI Pac I  
 CTA GTG GGG ATC CTT AAT TAA GGG CCA CTG GGG CCC CTC GAG AGA TCT  
 Stop

ATGAAT cgtagatactgaaaaacccc GCAAGTT cacttcaactgtgcatcgtg caccatctcaatttc  
 162 ABS2 53

ABS1 5' CGTTTGAATCACTACAGG 3'  
 JC90 5' CGATGATGAAGATACCCACCAAA 3'  
 162 5' GGGGTTTTTCAGTATCTACG 3'  
 ABS2 5' CACGATGCACAGTTGAAGT 3'  
 53 5' GAAATTGAGATGGTGCACGATGCAC 3'



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FIG. 10





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FIG. 11

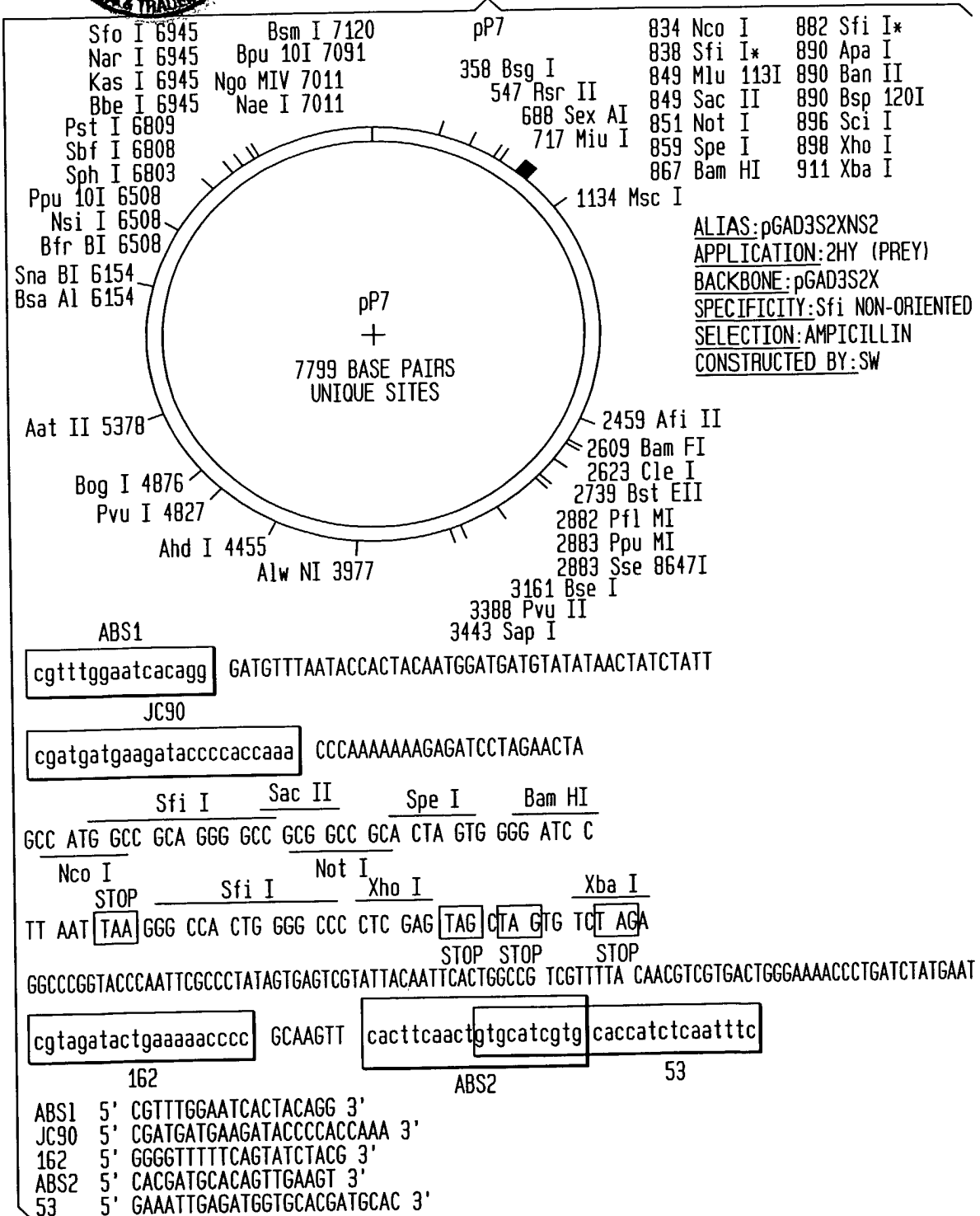
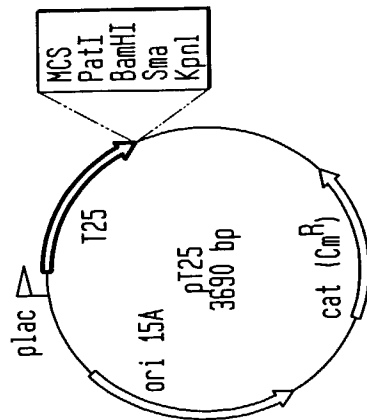
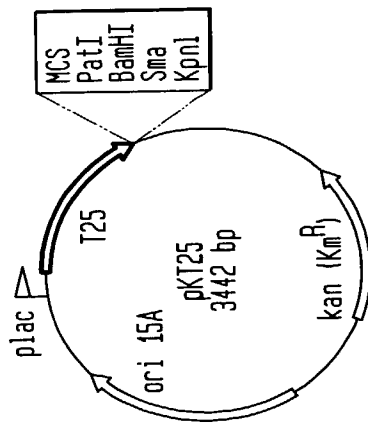


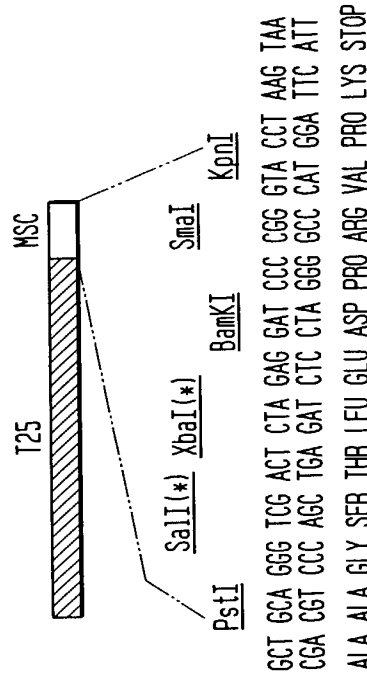
FIG. 12



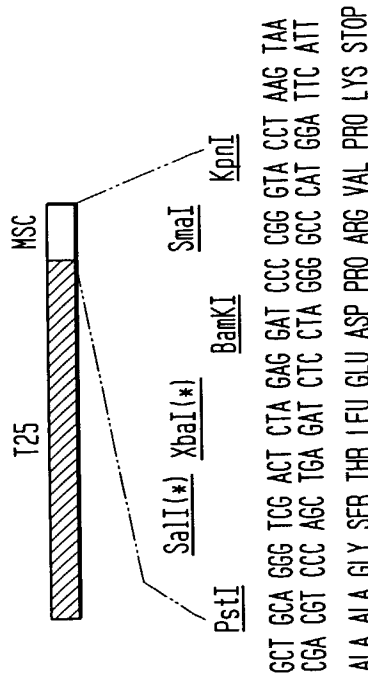
DERIVATIVE OF pACYC184



DERIVATIVE OF pSU40



(\*) RESTRICTION SITES ARE NOT UNIQUE

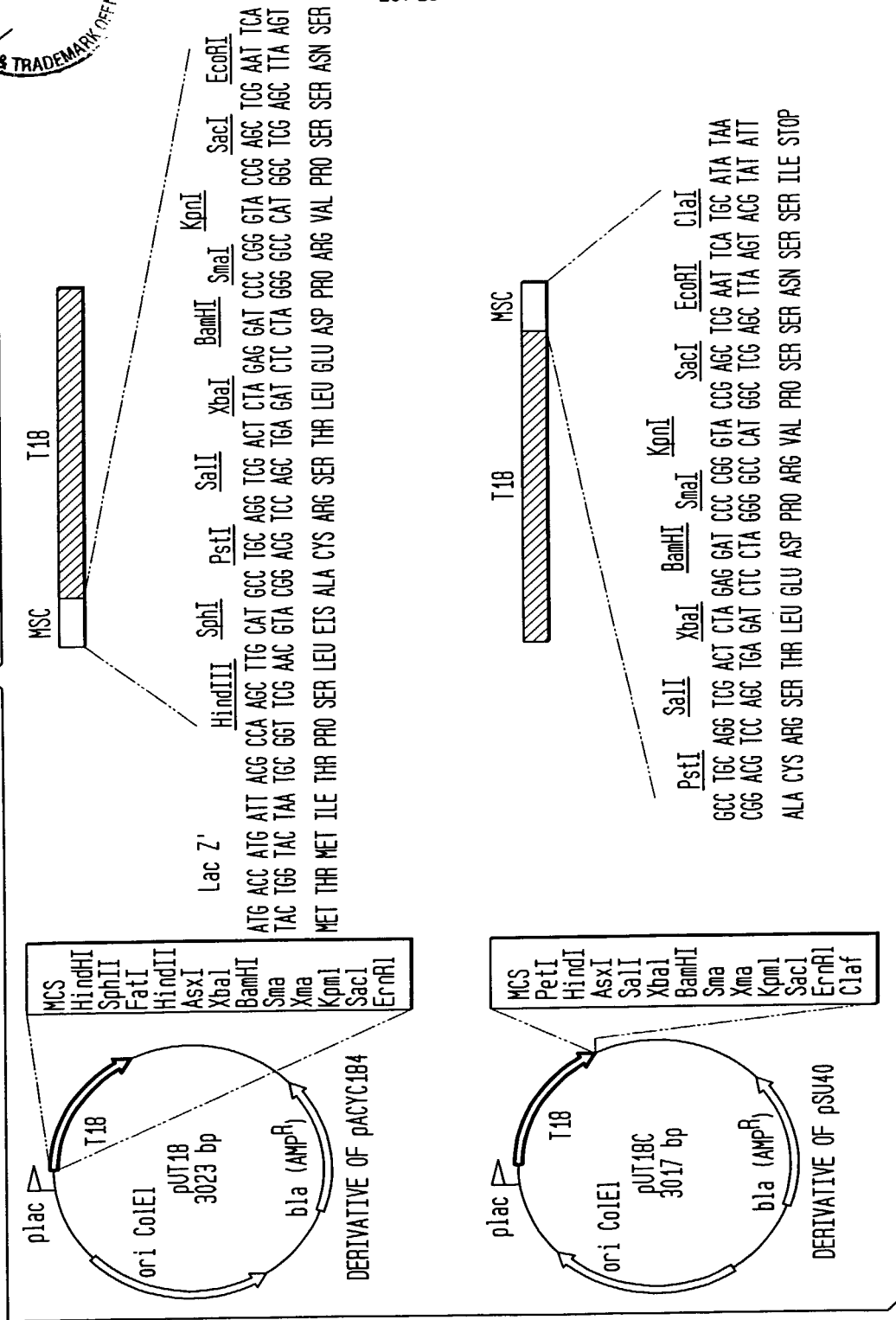


(\*) RESTRICTION SITE IS NOT UNIQUE





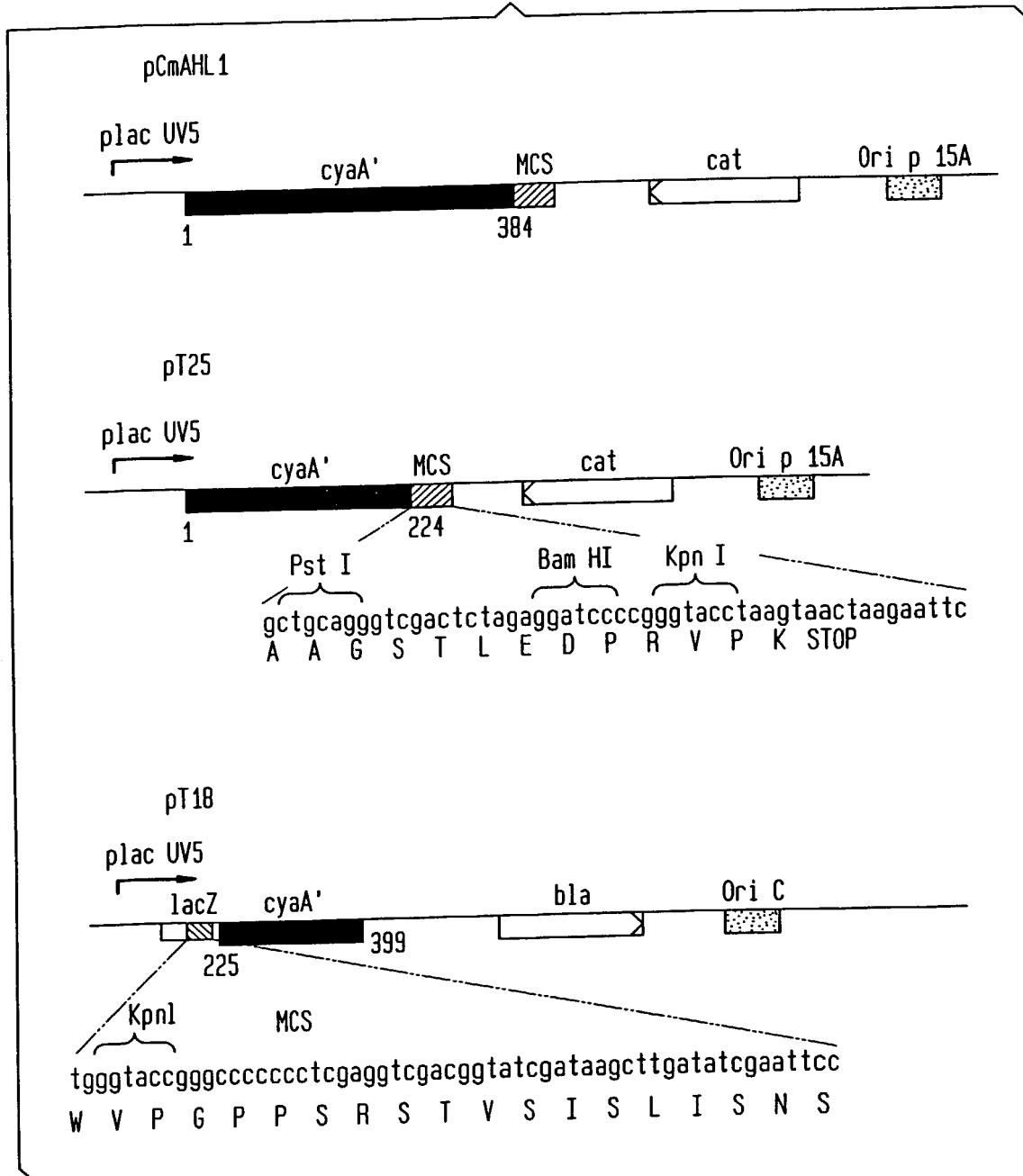
FIG. 13





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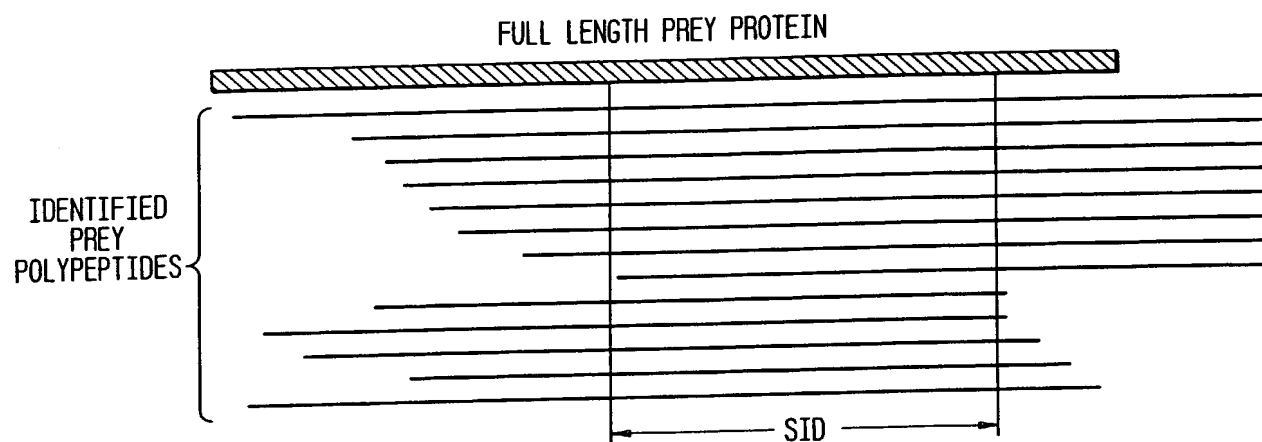
FIG. 14





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FIG. 15





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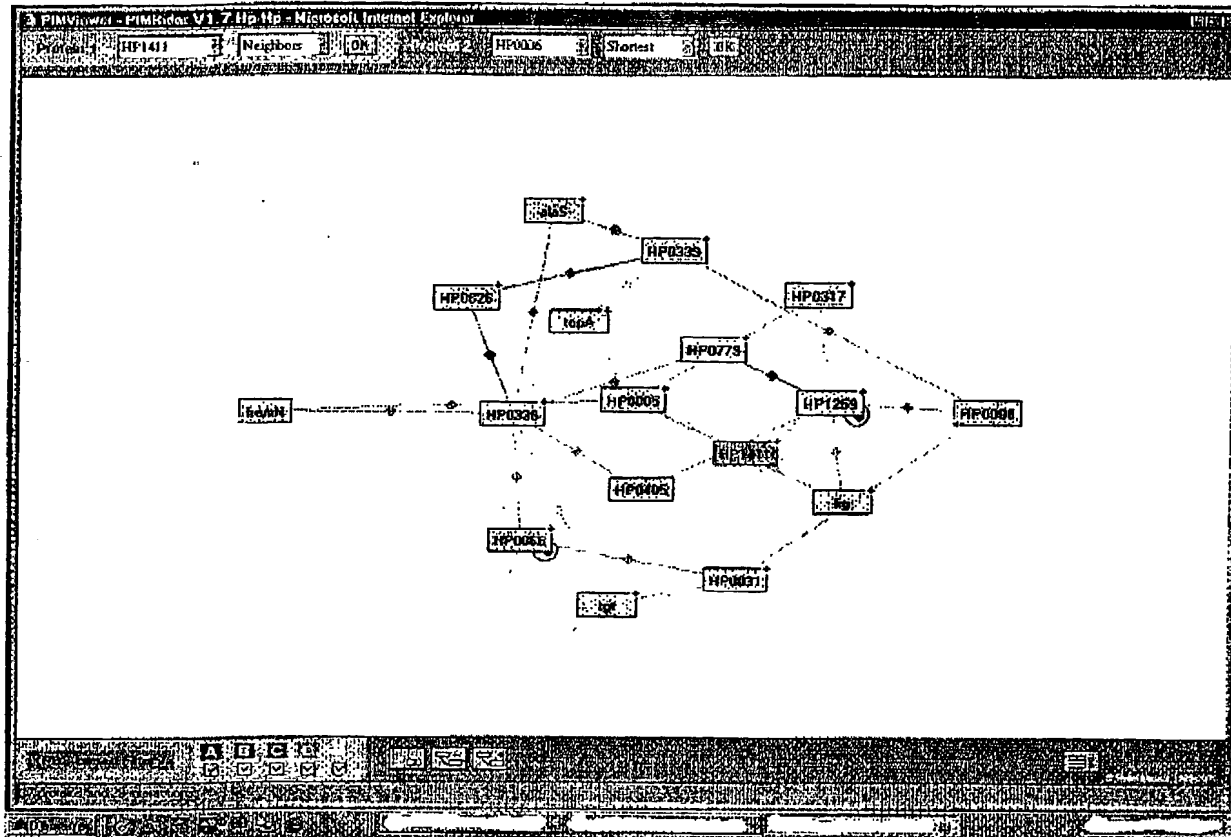


Figure 16 : Example of Protein Interaction Map

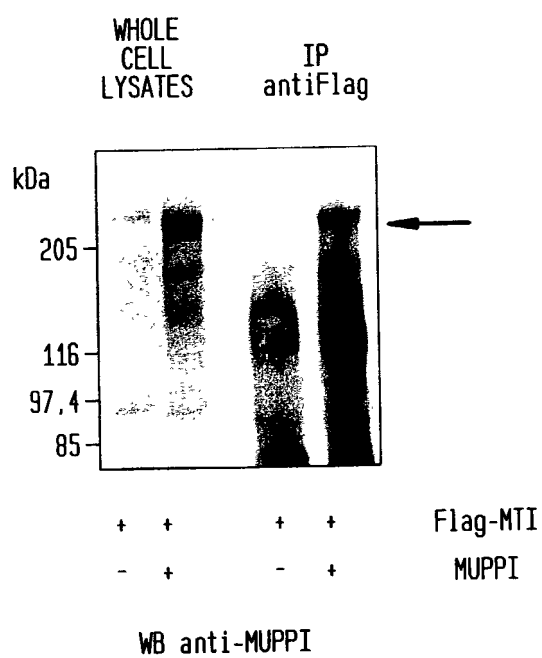
Fig. 16





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**FIG. 17**

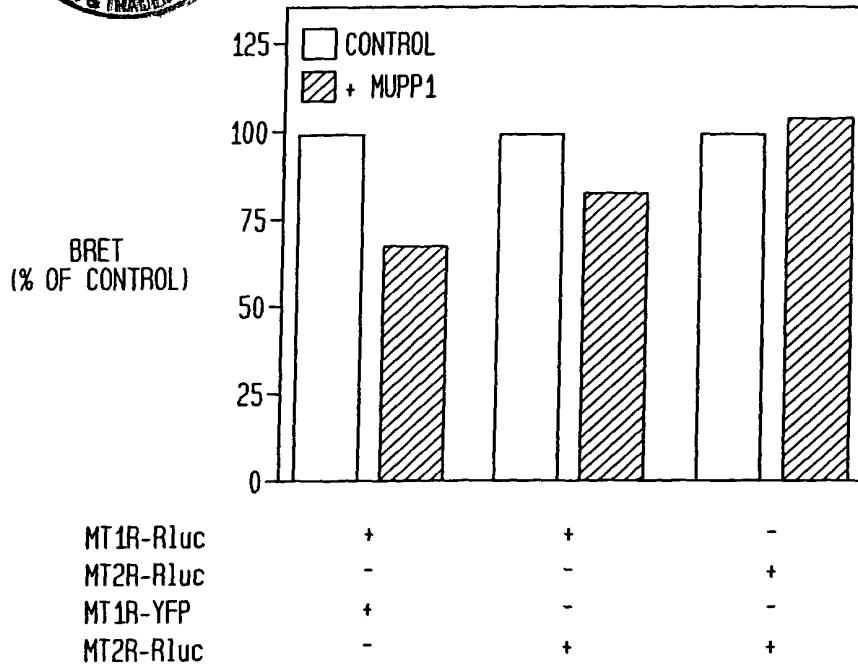




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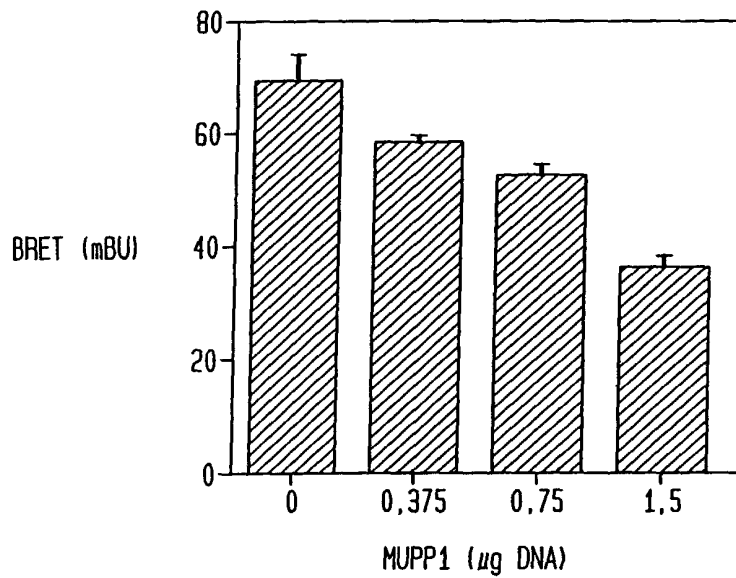
**FIG. 18A**

EFFECT OF MUPP1 OVER-EXPRESSION ON THE OLIGOMERIZATION OF MELATONIN RECEPTORS



**FIG. 18B**

COMPETITION OF ENERGY TRANSFER BETWEEN MT1R-Rluc AND MT1R-YFP BY MUPP1

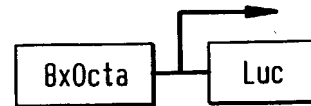
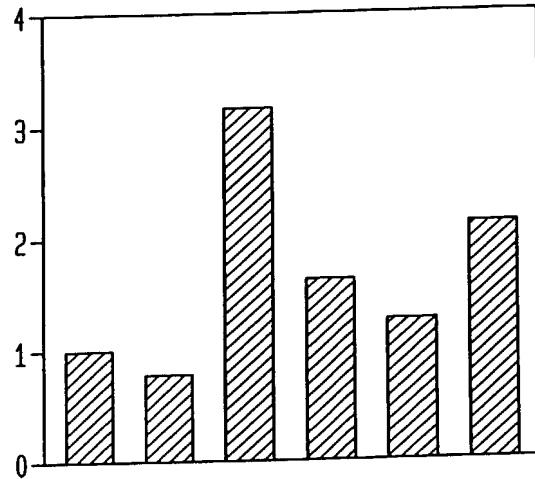


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FIG. 19

FOLD  
STIMULATION



BAR  
OCT-1  
 $\beta$ arr2 NES

-	+	-	+	-	-
-	-	+	+	-	+
-	-	-	-	+	+